



O. S., Doctor of Chemical Sciences.

Spetsialnye i obshchestvennye splavy urana, tsiurkoniya, i tsirkoniya. Obshchaya struktura i svoystva splavov urana, tsiurkoniya, i tsirkoniya. Struktura i svoystva splavov urana, tsiurkoniya, i tsirkoniya. Alloys; Collection of Articles; Moscow, Gosatomizdat, 1963.

378 p. 2000 copies printed.

20. Gomozyov, L. I., and O. S. Ivanov. Behavior of Uranium-Zirconium-Niobium Alloys During Cyclic Heat Treatment 169
21. Gomozyov, L. I., and O. S. Ivanov. Corrosion Resistance of Certain Uranium Alloys 174
22. Radtseva, T. A., and R. I. Kuznetsova. Hardness and Corrosion Properties of Uranium-Molybdenum-Chromium Alloys 191
23. Gomozyov, L. I. Mechanical Properties of Uranium-Zirconium-Niobium Alloys 194
24. Zagrov, G. N., Yu. S. Virgil'yev, and O. S. Ivanov. Mechanical Properties of Uranium-Molybdenum-Zirconium and Uranium-Zirconium-Niobium-Molybdenum Alloys at Elevated Temperatures 202
25. Virgil'yev, Yu. S. Aging of Multicomponent  $\gamma$ -Uranium-Base Solid Solutions 217

Card 6/10

...svoystva splavov ...  
...and Properties of ... Thorium, and Zirconium.  
...Collection of Articles) Moscow, Gosatomizdat, 1963.  
...2000 copies printed.

18. Radysheva, T. A., and G. K. Alekseyenko. Structure of  
Alloys of the Thorium-Zirconium-Niobium System

Radysheva, T. A., and G. K. Alekseyenko. Corrosion of  
Alloys of Thorium-Zirconium-Niobium

Radysheva, T. A., and L. I. Rybakova. Structure of

#### PART III. ZIRCONIUM-BASE ALLOYS

Radysheva, T. A., and L. I. Rybakova. Structure of Bismuth-  
Zirconium-Bismuth and Zirconium-Lead Alloys in the Solid  
State

19. Terekhov, G. I., and O. S. Ivanov. Phase Diagram of the  
Zirconium Corner of the Zirconium-Chromium-Tin System

End of List

ACC NR: AP7005751

(A)

SOURCE CODE: UR/0126/67/023/001/0028/0036

AUTHOR: Alekseyevskiy, N. Ye.; Ivanov, O. S.; Rayevskiy, I. I.; Step-  
anov, N. V.

ORG: Institute of Metallurgy im. A. A. Baykov, Academy of Sciences  
SSSR (Institut metallurgii)

TITLE: Phase diagram of the niobium titanium-zirconium system and  
superconducting properties of its alloys

SOURCE: Fizika metallov i metallovedeniye, v. 23, no. 1, 1967, 28-36

TOPIC TAGS: niobium, titanium, zirconium, system, ~~niobium-titanium-  
zirconium alloy~~, alloy phase diagram, ~~alloy phase composition~~, alloy  
~~structure~~ *System, superconducting alloy*

ABSTRACT: A study has been made of several alloys of the niobium-titanium-zirconium  
system at five sections with a constant niobium content of 6, 12, 30, 50  
and 70%. Alloys were melted from 99.7%-pure iodide zirconium, 99.8%-pure  
iodide titanium and 99.7%-pure cermet niobium. Phase diagrams of the system  
at 500, 550, 600 and 800°C were plotted on the basis of obtained data. It  
was found from the phase diagrams that the area of splitting into two  
solid solutions  $\beta_{Nb} + \beta_{Zr}$  gradually narrows with the introduction of titanium

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UDC: 669.017:537.312.62

ACC NR: AF7005751

into the alloys. At temperatures below 525°C, ternary alloys of the area adjacent to the niobium corner of the system are in a two-phase state  $\beta_{Nb} + \alpha_{Ti-Zr}$ . The one-phase area of  $\beta_{Nb}$ -solid solution at 550—500°C juts out into the ternary system along the line bisecting the niobium angle of the diagram. An even decrease of the critical temperature of transition to the superconducting state was observed in alloys which were in the state of  $\beta$ -solid solution and were subjected to a high degree of cold deformation (96% reduction). At a complete replacement of zirconium with titanium, this decrease was 1—2°K (see Fig. 1). In sections at 30 and 50% (Ti + Zr) of

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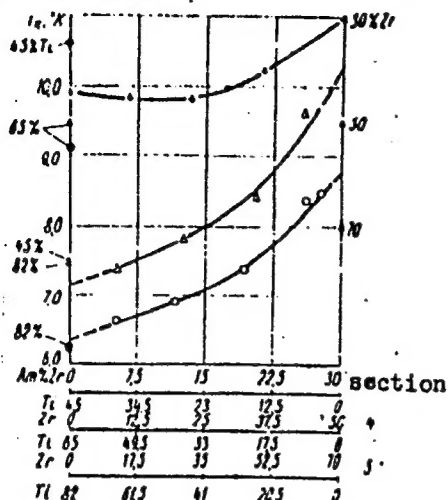


Fig. 1. Composition dependence of the temperature of transition to the superconducting state for alloys of the niobium-titanium-zirconium system

Δ - [6] Cast specimens; • - [5] cold deformation (96% reduction); sections: + - 3; Δ - 4, o - 5.

alloys cold-deformed and annealed at 550°C, only a small decrease of critical current density in a field of 20,000.oersteds was noticed when about half the zirconium was replaced with titanium. Orig. art. has: 10 figures and 2 tables. [TD]

SUB CODE: 11/ SUBM DATE: none/ ATD PRESS: 5117

Card 3/3

ALEKSANDROV, N.N.; IVANOV, O.T.

Preventing the freezing on of gauze in plane-table observations.  
Trudy GGO no.138:86-88 '63. (MIRA 17:2)

IVANOV, O.V., inzh.

Plotting power performance curves for mines. Nauch. dokl. vys. shkoly;  
gor. delo no.2:161-171 '58. (MIRA 11:6)

1. Predstavlena kafedroy gornoy elektrotekhniki Leningradskogo  
gornogo instituta im. G.V. Plekhanova.  
(Electricity in mining)

IVANOV, O.V.

Electric power consumption in mines of Estonia Shale Trust. Zap.Len,  
gor.inst. 35 no.1:66-69 '57. (MIRA 10:10)  
(Estonia--Electricity in mining) (Shale)

8(3)

SOV/112-59-5-8884

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 66 (USSR)

AUTHOR: Ivanov, O. V.

TITLE: Constructing Power Characteristics of Mines

PERIODICAL: Nauchn. dokl. vyssh. shkoly. Gorn. delo, 1958, Nr 2, pp 161-171

ABSTRACT: Electric-energy consumers can be subdivided into two groups:

- (1) consumers directly associated with production of useful minerals;
  - (2) auxiliary installations (water pumping, ventilation, shops, lighting, etc.).
- The first-group consumers can be subdivided into: (1) continuous mechanisms and (2) cyclic mechanisms. The continuous mechanisms can operate:
- (1) continuously with variable load, (2) intermittently with a constant load, and (3) intermittently with variable load. Power characteristics for the above-listed operating conditions of continuous mechanisms are presented. A characteristic of cyclic mechanisms is given. Formulae for the mine overall power characteristic are presented. A "variation coefficient" is used for

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SOV/112-59-5-8884

Constructing Power Characteristics of Mines

selecting the time duration in determining energy consumption data. The influence of operating conditions of the first-group consumers upon the power-characteristic and energy-consumption level of the mine is reported. Examples of computing power characteristics, as well as experimental characteristics, of a shale mine are given.

B.N.A.-K.

Card 2/2

BAUMAN, V.G., inzh.; IVANOV, O.V., inzh.; KOMAROV, B.I., inzh.

Longitudinal capacitance compensation of voltage drop in mine  
panel circuits. Nauch.dokl.vys.shkoly; gor.delo. no.4:137-146  
' 58. (MIRA 12:1)

1. Predstavleno kafedroy obshchey elektrotekhniki i elektriche-  
skikh mashin Leningradskogo gornogo instituta imeni G.V.  
Plekhanova.

(Electricity in mining)  
(Condensers (Electricity))

IVANOV, O.V.

Sampling and estimating the reserves of accessory minerals in  
nonferrous and rare metal deposits. Razved. i okh. nedr 26 no.4:16-21  
Ap '60. (MIRA 15:7)

1. Tsentral'no-Kazakhstanskoye geologicheskoye upravleniye.  
(Ores—Sampling and estimation) (Trace elements)

85528

1.9600 also 2209

S/032/60/026/011/013/035  
B015/B066

AUTHORS: Yermolov, I. N., Ivanov, O. V., and Krakovyak, M. F.

TITLE: Luminescence and Ultrasound in Flaw Detection

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 11,  
pp. 1239-1241

TEXT: The method described has been registered by the Komitet po delam izobreteniy i otkrytiy pri Sovete Ministrov SSSR (Committee of Inventions and Discoveries at the Council of Ministers of the USSR), effective as of March 22, 1960. The novelty of this method is that the part is submerged in phosphor and irradiated with an intense ultrasonic wave. The wetting of the part with the phosphor is thus considerably improved, defects are purified from inclusions, oxide films are destroyed, and a preparation of the part is avoided in this way. The subsequent operations are carried out as usually with the luminescence method. A schematic representation of the device for ultrasonic treatment of parts in phosphor shows that the ultrasonic waves are emitted from a piezoelectric crystal plate and are

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Luminescence and Ultrasound in Flaw  
Detection

S/032/60/026/011/013/035  
B015/B066

focussed by means of a lens, spread in the phosphor solution and are incident upon the part through a screen. The piezoelectric crystal plate is made of quartz or barium titanate and silvered on both sides. The distance of the focus of the lens which warrants the focussing of the ultrasound upon the site of the part to be inspected is calculated from an equation. The generator has a double circuit with self-excitation on two  $\Gamma Y-50$  (GU-50) tubes. The rectifier which feeds the generator has a combined voltage circuit with two 5U3S (5Ts2S)<sup>2</sup> kenotrons, in a way that the total anode potential will be 900 v. When comparing the figures of making visible cracks due to polishing of a part, it may be seen that the formation of cracks is far better confirmed by the method described than by means of the conventional luminescence method. The authors point out that also the flaw detection by means of dyes could be appreciably improved by using ultrasound. The device described above and designed in the laboratoriya defektoskopii TsNIITMASH (Laboratory for Quality Control of the TsNIITMASH) works at a frequency of up to 800 kc/sec. There are 2 figures.

Card 2/3

BAUMAN, V.G., inzh.; IVANOV, O.V., inzh.; KOMAROV, B.L., inzh.

Self-excitation of asynchronous motors with series capacitors.  
Elektrichestvo no.5:38-44 My '61. (MIRA 14:9)

1. Leningradskiy gornyy institut.  
(Electric motors, Induction)

BAUMAN, V. G., inzh.; IVANOV, O. V., inzh.; KOMAROV, B. I., inzh.

Power engineering factors in the operation of the main electro-mechanical equipment of a section in shale mines. Izv. vys. ucheb. zav.; gor. zhur. no.9:132-139 '61.

(MIRA 15:10)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G. V. Plekhanova. Rekomendovana kafedroy obshchey elektrotehniki i elektricheskikh mashin.

(Electricity in mining) (Shale)

BAUMAN, V.G., inzh.; IVANOV, O.V., inzh.; KOMAROV, B.I., inzh.

Problem concerning the efficiency of using series connected  
condensers for compensating losses in the power distribution  
networks of ore-smelting furnaces. Elektrichestvo no.1:21-  
25 Ja '62. (MIRA 14:12)

1. Leningradskiy gornyy institut imeni Plekhanova.  
(Electric furnaces)  
(Electric power distribution)

KOZHEVNIKOVA, N.Ye.; IVANOV, O.V.

Triphenylarsine. Metod.poluch.khim.reak.i prepar. no.4/5:40-42  
'62. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistykh khimicheskikh veshchestv.

BAUMAN, V.G., inzh.; IVANOV, O.V., inzh.; KOMAROV, B.I., inzh.

Laboratory study of an apparatus for longitudinal capacitive compensation of voltage losses in an electric power distribution network in a mine. Izv. vys. ucheb. zav.; gor. zhur. 6 no.3: 93-100 '63. (MIRA 16:10)

1. Leningradskiy ordena Lenina i Trudovogo Krasnogo Znameni gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy obshchey elektrotekhniki i elektricheskikh mashin.

IVANOV, O.V.

Automatic potometer. Bot. zhur. 48 no.5:688-693 My '63.  
(MIRA 17:1)

1. Agrofizicheskly nauchno-issledovatel'skiy institut,  
Leningrad.

IVANOV, O.V.

"Gravitron", an automatic laboratory installation for long-term continuous recording of changes in the biomass of plants and the simultaneous determination of the amount of water absorbed by their root systems. Bot. zhur. 50 no.4:517-522 Apr '65.

(MIRA 18:5)

1. Agrofizicheskii nauchno-issledovatel'skiy institut, Leningrad.

STOLYAROV, Isaak Moiseyevich; IVANOV, O.V.; nauchn. red.; RASHINA,  
T.D., red.

[Magnetic amplifiers with transistor and magnetic switches]  
Magnitnye usiliteli s poluprovodnikovymi i magnitnymi klyu-  
chami. Moskva, Energiia, 1965. 78 p. (Biblioteka po avto-  
matike, no.133) (MIRA 18:7)

KREMENSKAYA, I. N.; BRUDZ, V. G.; AVILINA, V. N.; IVANOV, O. V.; DAIOMKO, V. M.

"Physikalisch-chemische Untersuchung von Mikroverunreinigungen in nichtwässrigen nichtmischbaren Systemen der Chloride der IV. Gruppe."

report submitted for 2nd Intl Symp on Hyperpure Materials in Science and Technology, Dresden, GDR, 28 Sep-2 Oct 65.

All-Union Inst für reine Reagentien und Reinststoffe, Moskau.

IVANOV, P.

Inhabitants of Stavropol' plan and organize public services in  
their city. Zhil.-kom. khoz. 6 no.6:2-6 '56. (MLRA 9:12)

1. Zamestitel' predsedatelya Stavropol'skogo gorispolkoma.  
(Stavropol'--Municipal services)

IVANOV, P.

Safety measures to be used when handling cargos with paired  
booms. Mor. flot 19 no.5:14-16 My '59. (MIRA 12!7)

1.Vedushchiy konstrukter TSentral'noge konstruktorskogo byuro sudo-  
stroitel'noy promyshlennosti.  
(Cargo handling)

IVANOV, P.; GERCHEV, A.

Two cases of osteochondropathy of unusual localizations.  
Khirurgia, Sofia 8 no.2:188-190 1955.

(SHOULDER, diseases,  
osteochondropathy)

(ELBOW, diseases,  
osteochondropathy)

(OSTEOCHONDritis,  
elbow & shoulder)

IVANOV, P.

Increase the self-interest of local enterprises in obtaining a profit. Fin. SSSR 19 no.6:72-73 Je '58. (MIRA 11:6)

1. Nachal'nik otдела finansirovaniya narodnogo khozyaystva Kalininskogo oblfinotdela.

(Russia--Industries)

ILLUSTRATION.

(The work of Party organizations in schools for the introduction of polytechnik education and manual training of students. illus.)

Sofia, Bulgaria, Bulgarska komunisticheska partiia, 1958

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 6, Sept. 59

Unclassified

IVANOV, P. (g. Khar'kov); PETUSHKOV, G. (g. Khar'kov)

Hardening the axle box part of streetcar axles. Zhil.-kom. 11  
no.4:24-27 Ap '61. (MIRA 14:6)  
(Kharkov--Streetcars--Maintenance and repair)

IVANOV, P.

With the help of the collective farm construction brigade. Sel'.  
Stroi. 12 no.10:2-3 0 '57. (MIRA 10:11)

1. Nachal'nik Gzhatskogo rayonnogo otдела po stroitel'stvu v kolkhosakh  
Smolenskoй oblasti.

(Gzhatsk District--Housing, Rural)

COUNTRY : BULGARIA  
CATEGORY : Chemical Technology. Chemical Products and  
Their Applications. Pharmaceuticals. Vitamins\*  
ABS. JOUR. : RZKhim., No. 23 1959, No. 83252  
AUTHOR : Ivanov, P.; Ivanova, L.  
INST. :  
TITLE : Study of Pimpinella Saxifraga L.

ORIG. PUB. : Tr. N-i. in-t farmatsiya, 1957, 1, 80-81

ABSTRACT : Bluish-violet essential oil was found in the roots of the above mentioned plant. Quantity of this oil represented 0.70%. Ether number is 127.8 and specific gravity is 0.872. The oil possesses blood vessel dilating characteristics to a greater extent than does papaverin, kellin and "Ol. Anisi".

\*Antibiotics.

CARD: 1/1

H - 62

IVANOV, P., ZAKHARDEV

*I*

"Working Straw With Lime." p. 9, (KOOPERATIVNO ZEMEDELIE) Vol. 7, No. 10, 1952,  
Sofiya, Bulgaria.

SO: Monthly List of East European Accessions L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

USSR/Soil Science - Tillage. Amelioration. Erosion.

J

Abs Jour : Ref Zhur Biol., No 1, 1959, 1424

Author : Ivanov, P.

Inst :

Title : Soil Erosion and Control Methods in Moldavia

Orig Pub : Zemledeliye i zhivotnovodstvo Moldavii, 1957, No 6,  
14-20

Abstract : Soil erosion has damaged about 75 percent of the arable land in Moldavia. About 250 thousand hectares of this are badly eroded. To control the soil erosion processes it is recommended that cross plowing on slopes, forest planting and protective herb-strip sowing be applied. To retain precipitation which has fallen on the fallow fields strip tilling at every 10 meters should be used. It is best to protect the fallows with buffer strips. The fields which are freed from early crops might well be utilized for stubble and under-sown

Card 1/2

BULGARIA/General and Special Zoology - Insects.

P-6

Abs Jour : Ref Zhur - Biol., No 5, 1958, 21106

Author : Ivanov, P.

Inst : -

Title : New Chemical Means of Controlling Pests of Fruit Plants.

Orig Pub : Ovoshcharstvo i gradinarstvo, 1957, No 6, 16-19.

Abstract : No abstract.

Card 1/1

IVANOV, P.

AGRICULTURE

Periodical KUCHINATVOTO ZEMELIE. No. 11, Nov. 1951.

IVANOV, P. Cuscuta in Bulgaria and measures for fighting it. p. 24.

Method for increasing the selective capability of herbicides. p. 26.

Monthly List of East European Accessions (MEM) IC, Vol. 8, no. 3, March, 1959. Uncl.

VISHNYAKOV, N.K.; YANCHILIN, L.V. Prinimali uchastiye: ABRAMOCHKIN,  
V.A.; GUSEV, R.G.; IVANOV, P., red.; BELOVA, N., tekhn.red.

[Livestock feeding in the row crop system of agriculture]  
Kormlenie zhivotnykh pri propashnoi sisteme zemledeliia. Mo-  
skva, Sel'khozizdat, 1963. 133 p. .... (MIRA 16:8)

1. Nauchnye sotrudniki Altayskogo nauchno-issledovatel'skogo  
instituta sel'skogo khozyaystva (for Vishnyakov, Yanchilin,  
Abramochkin, Gusev).

(Feeding) (Feeds)

IVANOV, P., podpolkovnik

Upkeep of ferrying operations on a broad river during the night.

Voen.-inzh. zhur. 102 no.6:27-28 Je '58.

(MIRA 11:6)

(Stream crossing, Military)

IVANOV, P.

VOLKOV, Ye., podpolkovnik; IVANOV, P., podpolkovnik.

Blindages and shelters with standard frames. Voen-inzh.shur. 101  
no.9:18-23 S '57. (MLRA 10:9)  
(Fortification, Field)

82960

S/018/60/000/01/01/001

13.4000

AUTHOR: Ivanov, P., Captain Engineer

TITLE: On Telemechanization of Training Equipment

PERIODICAL: Voyenny Vestnik, 1960<sup>31</sup> No 1, pp 75 - 79

TEXT: The author stresses the importance of telemechanization for training equipment. Remote-control instruments are based on electromagnetic relays, sometimes on intermediate control relays connected to the control point, e.g., the "Relay-Attachment" designed by Captain I. Mazur and described on Page 80. In remote control, every executing mechanism has its own communication line, e.g., the long distance target control type ACO (ASO) which, however, is unsuitable for greater distances. The best solution so far are telemechanical controls and telesignals. There is an acute need for control of massed and dispersed fire arms. Research has shown that the frequency method is the most economical and effective of all. Its comparative ly limited use is caused by a lack of reliable and inexpensive selectors. The Institut mashinovedeniya i avtomatiki Akademii nauk SSSR (Institute of Mechanical Engineering and Automation of the AS USSR) has designed several

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IVANOV, P., inzhener-mayor

For devices used in military automatic control systems. Voen. vest.  
41 no.2:105-107 F '62. (MIRA 15:3)  
(Electric relays)

IVANOV, P., dots.

The hundredth anniversary of the Czechoslovak Society of  
Mathematicians and Physicians. Mat i fiz Bulg 5 no.3:49-51  
My-Je '62.

1. Chlen na Redaktsiennata kolegija i redaktor, "Matematika  
i fizika".

IVANOV, P. (Sofiya)

Teaching mathematics in secondary technical schools of the Bulgarian  
People's Republic. Mat.v shkole no.4:74-80 J1-Ag '62.  
(MIRA 15:11)

(Bulgaria--Mathematics--Study and teaching)

S/262/62/000/021/002/003  
E194/E435

AUTHORS: Ivanov P., Barishman, E.

TITLE: Automatic control of running-in of an engine

PERIODICAL: Referativnyy zhurnal. Otdel'nyy vypusk.  
42. Silovyye ustanovki, no.21, 1962, 52;  
abstract 42.21.311. (Avtomob. transport., no.1, 1962,  
27-29)

TEXT: The operation and schematic diagram of an installation developed in TsNIIME are described. The equipment automatically records changes in friction loss and adjusts the engine speed and load to the next set of conditions required. The equipment can be used to select the optimum running-in conditions for any engine and makes the running-in process automatic.

[Abstracter's note: Complete translation.]

Card 1/1

IVANOV, P., prof.

Increasing the butter content in milk. Priroda Bulg 12 no.2:  
12-18 Mr.-Ap '63.

IZMIRLIEV, At.; IVANOV, P., inzh.

News at the International Fair in Brno, 1963. Mashinostroeno  
12 no. 11:38-41 N '63.

1. Gl. redaktor i chlen na Redaktsionnata kolegiya, "Mashin-  
ostroeno" (for Izmirliiev).

ARSOV, IA., inzh.; IVANOV, P., inzh.; STOIANOV, N., inzh.; BALKANDZHIEV, R.,  
~~inzh.~~

A method in determining heat-accumulating capacity of molding  
mixtures. Mashinostroene 12 no.6:25-27 S '63.

IVANOV, P., dots.

Bulgarian Society for Physics and Mathematics in the building  
of socialism in Bulgaria. Nauch zhivot 6 no.1:17 Mr-Ap'63

1. Predsedatel na TsR na Bulgarskoto fiziko-matematicheskoto  
druzhestvo.

IVANOV, P., dots.

Teaching and development of mathematics in Bulgaria. Pt. 1.  
Mat i fiz Bulg 7 no. 1: 39-45 Ja-F '64.

1. Gl. redaktor, "Matematika i fizika".

IVANOV, P., dots.

Teaching and development of mathematics in Bulgaria. Pt. 2.  
Mat i fiz Bulg 7 no. 2:33-39 '64.

1. Chief Editor and Member of the Board of Editors, "Matematika i fizika."

IVANOV, P., dots.

Annual meeting, scientific and pedagogic conferences of the  
Bulgarian Society of Physics and Mathematics. Nauch zhivot 6  
no.3:16 -17 JI -5 '63.

IVANOV, P.

Changing the system of planning and accounting of expenses for servicing  
and repairing automobiles. Avt.transp. 32 no.4:18 Ap '54. (MLRA 7:6)  
(Automobiles--Maintenance) (Automobiles--Repairing)

IVANOV, P.

Planning and operational resources of automotive transport  
organizations. Avt.transp. 35 no.9:3 S '57. (MIRA 10:10)

1.Nachal'nik planovogo otdela Leningradskogo upravleniya  
avtotransporta.

(Transportation, Automotive)

*Ivanov*  
IVANOV, P.

How to speed up the liquidation of minor automotive transportation  
units. Avt.transp. 35 no.11:29 N '57. (MIRA 10:12)  
(Transportation, automotive)

IVANOV, I.

Results of the operations of the Central Dispatcher Service  
in Leningrad. Avt.transp. 39 no.10:34-35 0 '61.

(MIRA 14:10)

(Leningrad--Transportation, Automotive)

L 01854-67 EWT(m)

ACC NR: AP6030316

(A)

SOURCE CODE: UR/0018/66/000/008/0099/0104

AUTHOR: Ivanov, P. (Engineer, Colonel); Poverin, I. (Lieutenant colonel)

ORG: None

TITLE: Reliable shelter protection

SOURCE: Voyennoy vestnik, no. 8, 1966, 99-104

TOPIC TAGS: nuclear warfare, defense installation, fallout shelter / KVS-U fallout shelter

19  
ABSTRACT: A general review of various fortified fallout shelters to be used as defense installations in nuclear warfare is presented. The shelters are built in open pits and then covered by a layer of earth 1 to 1.2 m thick. The soil conditions and the execution of earthwork are discussed. The pit, being 2 to 3 m deep, is made large enough for providing sufficient spacings between the walls of the pit and the structure. The bottom of the pit is carefully leveled and the spacings are filled with waterproof materials. The construction and arrangement of a platoon shelter composed of a room (for 4 lying and 6 sitting people) and two covered entrance tambours is described. The needed materials are specified in a table while the shelter dimensions are shown in elevation, plan and sections. The shelter is assembled of standard wood elements fastened together by wires without using nails. The first entrance tambour of a hatch-way type is made of a tubular

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ACC NR: AP6030316

framework covered with canvas. It leads to the intermediary entrance tambour made of standard structural timber. This entrance arrangement is shown in a pictorial cross-section. The process of assembling structural elements is explained by using a pictorial drawing of the shelter. The description also includes the installation of a filter-ventilation device and the insulation of walls and doors. A standard shelter set of KVS-U type assembled of 24 cylindrical elements made of corrugated steel is also described and illustrated. It is equipped with an entrance hatch-way and a periscope arrangement. The process of assembling the elements in an excavated pit is explained. A team of 7 people, by using a bulldozer, can erect the KVS-U shelter in about 3.5 hours. The amount of material and man-hours needed for various operations are tabulated for wood and steel structures. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 13, 15/ SUBM DATE: None

Card

2/2 LC

IVANOV, P.

Change the system of shipping goods to the Yakut A.S.S.R. Rech.  
transp. 24 no.5:19-20 '65. (MIRA 18:9)

1. Nachal'nik Lenskogo parokhodstva.

IVANOV, P.

For a more effective lesson in mathematics. Mat i fiz Bulg 7  
no.6:6-16 N-D '64.

*Ivanov P.*

BULGARIA / Farm Animals. Small Horned Stock.

Q-2

Abs Jour: Ref Zhur-Biol., No 23, 1958, 1056621

Author : ~~Ivanov, P.~~, Kostov, S.  
Inst : Higher Agricultural Institute "G. Dimitrov",  
Zootechnical Faculty.  
Title : On the Acclimatization of Karakul Sheep in  
Bulgaria.

Orig Pub: Nauchni tr. Vyssh. selskostop. in-t "G. Dimitrov".  
Zootehn. fak., 1956, 6, 473-497.

Abstract: The influence of the new conditions of life upon  
the exterior, live weight, milkiness, wool yield  
and quality of curls and coats of the Karakul  
ewes and rams, imported in 1945 from the Uzbek  
SSR (120 ewes and 41 rams), was studied. In the  
imported Karakul sheep, the height at withers  
was 70 cm., length of the body 68.6 cm., depth

IVANOV. P.<sup>3</sup>

"Contribution to the study of the effect of Bulgarian yoghurt, Lactobacillus bulgaricus, and the acidophilus milk in feeding suckling calves."

p. 141 (Izvestia) Vol. 7, 1956. Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 5 May 1958

IVANOV, P. ; KOSTOV, S.

"Feeding calves with large rations of colostrum."

p. 175 (Izvestia) Vol. 7, 1956. Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol, 7, no. 5, May 1958

BULGARIA/Farm Animals - Cattle.

Q-2

Abs Jour : Ref Zhur - Biol., No 1, 1959, 2649

Author : Ivanov, P.

Inst :

Title : New Stage of Breeding Work on the Creation of Bulgarian Red Cattle.

Orig Pub : Selkhozop. mis"1, 1957, 2, No 12, 740-747.

Abstract : The work on creating this breed is being conducted in a number of regions on 5-6 breeds (Red Sadovskaya, Red Steppe Ukrainian, Montafonskaya, Simmenthaler, various hybrids, and others). The herd is composed of 17.28% of animals below the 2nd class. For 546 cows of the Plovdivskiy State Breeding Farm, the fat content in milk amounts to 3.67%; and for 1,495 cows in the Varna State Breeding Farm, it amounts to 3.78%. The desirable type of cattle are dairy-beef ones with a live weight of no less than

Card 1/2

IVANOV, P., and others.

Repeated sheepshearing, an important measure for raising the production of wool in Bulgaria. p.9.

(LEKA PROMISHLENOST, Vol. 6, no. 3, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

Card 1/1

BULGARIA / Farm Animals. General Problems.

Q-1

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105617.

Author : Platikanov, N., Ivanov, P., Ignatov, Ig.  
Inst : Institute of Animal Husbandry, Bulgarian AS.  
Title : Development of Animal Husbandry (in Bulgaria)  
and Measures for Its Further Advancement.

Orig Pub: Izv. In-ta zhiivotnov'dstvo, B'lg. AN, 1957, kn. 8,  
10-36.

Abstract: No abstract.

Card 1/1

BULGARIA/Farm Animals. Sheep and Goats.

Q

Abs Jour: Ref Zhur-Biol., No 17, 1958, 78758.

Author : Ivanov, Petko.  
Inst : Institute of Animal Breeding, Bulgarian AS.  
Title : Crossbreeding of Sheep of the Copper- Red  
Shumen Breed with Fine-Wool Rams.

Orig Pub: Izv. In-ta zhiivotnov'dstvo. B'lg. AN, 1957,  
kn. 8, 111-144.

Abstract: In 1946, in the State Agricultural Farm ineni  
V. Kolarov, copper-red Shumen sheep were crossed  
with rams of the Merino breed. Hybrids of the  
first generation were inbred. In the copper-  
red Shumen sheep, average live weight was 43.80  
kg, average annual wool shearing 3.2 kg, thickness

Card : 1/2

IVANOV, P.

"Effect of the mountain pastures on the development of the young cattle."

p. 139 (Izvestiia, Vol. 9, 1958, Sofia, Bulgaria).

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 12, Dec. 58.

IVANOV, P.

"Results from crossbreeding local sheep with Karakul rams."

p. 2.1 (Izvestiia, Vol. 9, 1958, Sofia, Bulgaria).

Monthly Index of East European Accessions (EEAI) LC, Vol. 7. No. 12, Dec. 58.

IVANOV, P.; KOSTOV, S.; ZAKHARIEV, Z.

Breeding calves in semienclosed barns during winter. p. 113.

IZVESTIIA. Sofia, Bulgaria, Vol. 10, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, No. 2,  
February, 1960. Uncl.

IVANOV, P.

Double shearing of sheep. p. 227.

IZVESTIJA. Sofia, Bulgaria, Vol. 10, 1959.

Monthly List of East European Accessions (EEAI), IC, Vol. 9, No. 2,  
February, 1960. Uncl.

IVANOV, P., prof.

International Conference on Increasing the Milk and Meat Productivity  
of Cattle. Spisanie BAN 5 no.3:46-52 '60. (EEAI 10:5)  
(Cattle)

IVANOV, P., prof.; KOSTOV, St., dots.

International symposium on raising cattle free in semi covered  
cattle sheds. Spisane BAN 6 no.1:86-91 '61.

(EIAI 10:9/10)

(Stock and stockbreeding)

9. "An Improved Type of Tent for Rearing Animals," Ivanov, Junior Scientific Collaborator at the Regional Agricultural-Scientific Institute in Rostov, Zaporozh, pp 4-6.
10. "Our Experience with Preserving Green Alfalfa with Sodium Methionide," Ivan Dikov, Chairman of the Sred to Communist Cooperative Farm in Ipatovsk; pp 5-8.
11. "For the Correct Distribution and Consolidation of Poultry Production in the Cooperative Farm," Zaitso Gerasimov, Junior Scientific Collaborator, Leningrad Agricultural Scientific Research Institute; pp 9-13.
12. "The Influence of the Age of Hens for Breeding Purposes on Size of Their Productive Characteristics," Ivan Vukov (Senior Assistant, "G. Dimitroff" Agricultural Scientific Institute) and Vladimir Petrov (Senior Zoologist, G. Dimitroff State Farm); pp 13-17.
13. "Conserved Pemmicanization on the Poultry Pen in the Village of Malozorovo, Zaporozhsk," Stefan Rilyakov, Veterinarian Zoologist at the "I. Lenin Cooperative Farm, Cherkassk; pp 18-22.
14. "Many Paths Lead to Cheap Production," Selma Jureva, Poultry Keeper at the cooperative farm in the village of Drobia (Polovina owned by people's representative, the Red Banner of Leningrad); pp 23-25.
15. "The Daily Productivity of Dauphin and Draft Horses in the Collaboration of Agricultural Crops," Ivan Gerasimov, Junior Scientific Collaborator, Leningrad Scientific Research Institute, Rostov-on-Don; pp 26-28.
16. "Feeding as a Factor in Breeding," Professor Petko Ivanov; pp 29-34.
17. "Our Experience with Breed Improvement," Petko Gerasimov, Director of the breed improvement station in Sofia Slavia; pp 35-39.
18. "The Artificial Insemination of Cows with Sperm

IVANOV, P., prof.

Production and utilization of nutrient mixtures for the  
feeding of various domestic animals. Spisanié BAN 7  
no.1/2:112-117 '62.

IVANOV, P.; KULPE, E.

An international symposium on cattle and swine breeding  
according to different methods. Sel'skoston nauka 2 no. 3/4  
465-470 '63.

IVANOV, Petko, prof.

Crossing with the Jersey breed in Hungary, and lessons for  
Bulgarian cattle breeders. Priroda Bulg 13 no.3:46-51 My-Je  
'64.

1. Corresponding Member of the Bulgarian Academy of Sciences.

IVANOV, P.

**Investigation of the Melting Process in Large Open-Hearth Furnaces with a Deep Bath.** P. Ivanov and L. Katsen. (Stal, 1939, No. 2, pp. 13-17). (In Russian). The experimental data discussed in this article were obtained from open-hearth furnaces ranging from 120 to 400 tons in capacity and with a depth of bath of from 900 to 1700 mm. The following factors which affect the rate of elimination of the carbon were studied: (1) Depth of bath, (2) thermal capacity of the furnace, (3) composition and properties of the slag, and (4) the effect of manganese. The chief factor which lowers the rate of elimination of the carbon as the depth of the bath is increased is the reduction in the reactive surface area of the bath per unit weight of charge. This may be counteracted by increasing the rate of heat supply to the furnace, which will favour elimination of the carbon by raising the rate of diffusion of the ferrous oxide from the slag into the metal. The fluidity of the slag should be increased by increasing its basicity. Finally, ferro-manganese should not be added during the boil, as this lowers the rate of carbon elimination.

ASB. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26																									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ																									
<p>IVANOV, P.</p> <p>5</p> <p>10</p> <p>Improvement in Quality of Rails by Sorbitisation (Experience of the Kertch Works). V. Datta and P. Ivanov. (Stal. 1931, No. 6, June, pp. 67-77). The thermal treatment of rails (sorbitisation) makes it possible to obtain a tensile strength greater than 100 kg. per sq. mm. for the upper part of the rail (8-10 mm. thick) without affecting the toughness of the rail as a whole. It is preferable to increase the tensile strength by sorbitisation rather than by increasing the carbon content, because the first-mentioned method does not reduce the limit of proportionality. (In Russian).</p> <p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p> <p>GROUP 1</p> <p>GROUP 2</p> <p>GROUP 3</p> <p>GROUP 4</p> <p>GROUP 5</p> <p>GROUP 6</p> <p>GROUP 7</p> <p>GROUP 8</p> <p>GROUP 9</p> <p>GROUP 10</p> <p>GROUP 11</p> <p>GROUP 12</p> <p>GROUP 13</p> <p>GROUP 14</p> <p>GROUP 15</p> <p>GROUP 16</p> <p>GROUP 17</p> <p>GROUP 18</p> <p>GROUP 19</p> <p>GROUP 20</p> <p>GROUP 21</p> <p>GROUP 22</p> <p>GROUP 23</p> <p>GROUP 24</p> <p>GROUP 25</p> <p>GROUP 26</p>																									

IVANOV, P.

S

**The Optimum Conditions for the Refining of Steel.** P. Ivanov. (Stal, 1939, No. 9, pp. 23-25). (In Russian). The author discusses the effect of three factors which are considered to have a decisive influence on the quality of the steel produced, namely, the mean rate of elimination of the carbon, the duration of the boil and the nature of the carbon elimination curve. Depending on the conditions of melting, all these three factors should be given definite values. In addition, they should be placed in a definite relationship to the duration of the so-called "pure boiling," i.e., the period of boiling under normal non-frothing slags covering not less than two-thirds of the surface of the metal bath.

ASB-LLA METALLURGICAL LITERATURE CLASSIFICATION

IVANOV, P.

~~Damage to boilers welded with T-joints.~~ Mor.flot 15 no.4:16-17  
Ap '55. (MIRA 8:5)  
(Steam boilers, Marine--Welding)

IVANOV, P.(Dnepropetrovsk)

Metal workers' conferences on production, Sev.profsoluzy 4 no.3:59-61  
Mr '56. (MLRA 9:7)

1.Predsedatel' komiteta profsoyusa martenevskogo tsekha No.3 zavoda  
imeni Patrevskogo.  
(Dnepropetrovsk--Metal industries) (Works councils)

IVANOV, P.

Mechanization of the work in our foundries.

P. 2, (Teshka Promishienost) Vol. 6, no. 4, Apr. 1957, Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EMAI) Vol. 6, No. 11 November 1957

IVANOV, P.

Conference on casting metals in the German Democratic Republic.

p. 45 (TEZHKA PROMISHLENOST) Vol. 6, no. 6, June 1957,  
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958

DZHIDZHEV, Iord.; IVANOV, P.; MIKHOVSKI, K.

New binders for metal casting, based on beech asphalt.  
Mashinostroene 11 no.5:21-24 My '62.

IVANOV, P., inzh.; IZMIRLIEV, Atanas

New machine tools manufactured in the German Democratic Republic exhibited at the Leipzig Spring Fair. Mashinostroena 11 no.5:37-41 My '62.

1. Chlen na Redaktsionnata kolegiia i glaven redaktor, "Mashinostroene" (for Izmirliev).

IVANOV, P., inzh.

A meeting for the exchange of experiences on the chill  
casting of iron. Mashinostroene 11 no.5:44-45 My '62.

DZHIDZHEV, Iordan, inzh.; IVANOV, Petko, inzh.; ANGELOV, Georgi, inzh.

The Dimitrovgrad bentonite as binding material in metal casting. Tekhnika Bulg 11 no.5:177-180 '62.

IVANOV, P., inzh.

International Conference on Welding, Varna, May 28-30, 1963.  
Mashinostroeni 12 no.7:43-44 JI '63.

IVANOV, P., inzh.; KERVANBASHIEV, St., inzh.; ARSOV, I.A., inzh.; RAIKOV,  
K., inzh.

A new foundry binder based on bitumen. Mashinostroens 13 no.4:  
23-27 Ap '64.

IVANOV, P., inzh.

New Czechoslovak metal-cutting tools at the Brno Sample Fair.  
Mashinostroene 13 no.11:42-44 N '64.

DROZDOV, N.; IVANOV, P.; MALAYA, N. (Dnepropetrovsk); ZHUKOVA, S., inzh.  
(Novosibirsk); FEDOROVA; PODUSHKO, inzh.

Readers' letters. Inform.biul. VDNKH no.4:14-16 Ap '65.

(MIRA 18:5)

1. Glavnyy inzh. ozerskogo khlopchatobumazhnogo kombinata  
"Rabochiy" (for Drozdov). 2. Glavnyy inzh. zavoda "Sante-  
khpribor", Kazan' (for Ivanov). 3. Glavnyy inzh. bolshevskoy  
pryadi'l'noy fabriki imeni 1 Maya (for Fedorova).

IVANOV, Petko, inzh.

By electric train from Sofia to Varna. Nauka i tekhn mladezh  
no.10:22-24 0 '57.

IVANOV, Petko, inzh.

Dam construction in the Tertiary deposits. Khidrotekhnika i melioratsiya  
no.5:145-147 '62.

IVANOV, P., inzh.; APSOV, IA., inzh.; KERVANBASHIEV, St., inzh.

A binder for foundry purposes. Tekhnika Bulg 13 no.6:33-34 '64.

ARSOV, IAnko, inzh.; IVANOV, Petko, inzh.

Heat-accumulating capacity of some varieties of molding mixtures. Tekhnika Bulg 13 no.8:3-4 '64.

SEME NOV, N.P., kand.sel'skokhoz.nauk; IVANOV, P.A., red.

[Experience of leading workers in the large-scale introduction of efficient practices for obtaining increased milk yields; Ramenskoye District, Moscow Province] Opyt peredovikov po massovomu razdoiu korov; Ramenskii raion, Moskovskoi oblasti. Moskva, Izd-vo "Znanie," 1952. 21 p. (Vsesoiuznoe obshchestvo po rasprostraneniuiu politicheskikh i nauchnykh znani. Ser.3.) (MIRA 12:9)

(Ramenskoye District--Dairying)

IVANOV

В. Г. Дубинин,  
А. Н. Ефимов  
Проект радиотехнических приборов для защиты радиотехники от помех.

А. Н. Корсаков  
Несколько технических применений физико-математических методов измерения радиотехнических систем.

В. В. Козлов,  
Е. А. Козлов,  
Г. Н. Козлов,  
Н. А. Козлов

Опыт разработки радиотехнических систем

Н. С. Степанов

Несколько приборов для автоматизации процессов измерения параметров радиотехнических систем

II номер  
(с 18 до 22 часов)

М. В. Фомин

Вопросы разработки радиотехнических систем измерения параметров радиотехнических систем

12

А. М. Протасов

Вопросы измерения параметров радиотехнических систем при измерении параметров радиотехнических систем на СВЧ и радиотехнических

В. М. Шибанов,  
В. М. Шибанов,  
В. А. Шибанов

Измерение параметров радиотехнических систем при измерении параметров радиотехнических систем

А. М. Чернышев

Устройства для измерения параметров радиотехнических систем и измерения параметров радиотехнических систем

Н. М. Соловьев,  
В. Я. Соловьев

Прибор для измерения параметров радиотехнических систем при измерении параметров радиотехнических систем

В СЕКЦИИ ОБЩЕЙ РАДИОТЕХНИКИ  
Руководитель Г. А. Мухомов

III номер

(с 10 до 12 часов)

report submitted for the Centennial Meeting of the Scientific Technological Society of  
Radio Engineering and Electrical Communications in A. S. Popov (VSEKIS), Moscow,  
8-12 June, 1959

IVANOV, P.A.

Cost reduction of geological prospecting operations for building materials. Razved. i okh. nedr. 22 no.3:32-35 Mr '56.(MIRA 9:7)  
(Prospecting)

IVANOV, P.A.

Device for marking pipe coupling at any angle. Rats. i izobr. predl.  
v stroi. no.56:10-11 '53. (MIRA 9:7)  
(Pipe fittings)

IVANOV, P.A., inzh.

Altering specifications for the design of filling sections and  
bottle warehouses. Kislorod 10 no.4:27-28 '57. (MIRA 11:2)  
(Oxygen)

IVANOV, P.A.

Dynamo pickup in a bridge circuit. Izv.vys.ucheb.zav.; prib.  
2 no.5:32-41 '59. (MIRA 13:5)

1. Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskoy institut.  
Rekomendovana uchenym sovetom Fiziko-tekhnicheskogo instituta  
pri Gor'kovskom gosudatstvennom universitete.  
(Bridge circuits) (Electric measurements)